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(54) Title: BUTYRYLCHOLINESTERASE VARIANTS THAT ALTER THE ACTIVITY OF CHEMOTHERAPEUTIC AGENTS

(57) Abstract: The invention provides a butyrylcholinesterase variant, a method of converting a camptothecin derivative to a topoisomerase inhibitor by contacting the camptothecin derivative with a butyrylcholinesterase variant and a method of treating cancer by administering to an individual an effective amount a butyrylcholinesterase variant exhibiting increased capability to convert a camptothecin derivative to a topoisomerase inhibitor compared to butyrylcholinesterase.